**A Comprehensive Meta-analysis of dietary and culinary practices on esophageal cancer incidence in the East African Corridor**

**Eugene Jamot Ndebia and Gabriel Tchuente Kamsu\***

Department of Human Biology, Faculty of Health Sciences, Walter Sisulu University, 5117 –Mthatha, South Africa.

\***Correspondence:** gkamsu-tchuente@wsu.ac.za; endebia@wsu.ac.za.

**Table S1.** Search strategy in database.

|  |  |
| --- | --- |
| Database (Date: Year -Month -Day) | Search detail |
| **Web of Science (2023/11/01)**: | Dietary patterns (All Fields) or Eating patterns (All Fields) or Dietary habits (All Fields) or Food patterns (All Fields) or Food (All Fields) or Dietary (All Fields) or African foods (All Fields) or Risk factors (All Fields) and Esophageal Neoplasm (All Fields) or Esophagus Neoplasm (All Fields) or Esophageal Cancer (All Fields) or Esophageal Tumor (All Fields) or Esophageal malignancy (All Fields) or Esophageal Squamous Cell Carcinoma (All Fields) or Esophageal Adenocarcinoma (All Fields)  |
| **Scopus (2023/11/02)**  | ( TITLE-ABS-KEY ( Esophageal AND cancer ) OR TITLE-ABS-KEY ( Esophageal AND carcinoma ) OR TITLE-ABS-KEY ( Esophageal AND squamous-cell AND carcinoma ) OR TITLE-ABS-KEY ( Esophageal AND adenocarcinoma ) OR TITLE-ABS-KEY ( esophageal AND neoplasms ) OR TITLE-ABS-KEY ( Esophageal AND tumor ) OR TITLE-ABS-KEY ( Esophagus AND cancer ) AND TITLE-ABS-KEY ( Dietary AND patterns ) OR TITLE-ABS-KEY ( Eating AND patterns ) OR TITLE-ABS-KEY ( Risk AND factors ) OR TITLE-ABS-KEY ( Food AND patterns ) OR TITLE-ABS-KEY ( Dietary AND habits ) OR TITLE-ABS-KEY ( Diet ) OR TITLE-ABS-KEY ( Food ) OR TITLE-ABS-KEY ( Dietary )) |
| **Cochrane (2023/11/03)** | (Dietary patterns) OR (Food patterns):ti,ab,kw OR (Dietary habits):ti,ab,kw OR (Eating patterns):ti,ab,kw OR (Food):ti,ab,kw OR (Dietary):ti,ab,kw OR (African foods):ti,ab,kw OR (Risk factors):ti,ab,kw AND (Esophageal cancer) OR (Esophageal carcinoma):ti,ab,kw OR (Oesophageal cancer):ti,ab,kw OR (Esophageal tumor):ti,ab,kw OR (Oesophageal tumor):ti,ab,kw OR (Esophagus cancer):ti,ab,kw OR (Oesophagus cancer):ti,ab,kw OR (Esophageal Squamous-Cell Carcinoma):ti,ab,kw OR (Esophageal Adenocarcinoma):ti,ab,kw OR (ESCC):ti,ab,kw OR (esophageal Neoplasms):ti,ab,kw |
| **Medline/PubMed (2023/11/04)** | ((((((((((((((((((Dietary patterns) OR (Eating patterns)) OR (Food patterns)) OR (Dietary habits)) OR (Diet)) OR (Food)) OR (Dietary)) OR (African foods)) OR (Risk factors)) AND (Esophageal Neoplasm)) OR (Esophagus Neoplasm)) OR (Esophagus Cancer)) OR (Esophageal Cancer)) OR (Esophageal Tumor)) OR (Esophageal malignancy)) OR (Esophageal Squamous Cell Carcinoma)) OR (Esophageal Adenocarcinoma) |
| **African Journal Online (2023/11/05)** | (tw:("esophageal carcinoma ")) OR (tw:("oesophageal carcinoma")) AND (tw:("Eating patterns")) OR (tw:("risk factor")) OR (tw:("Dietary patterns")) OR (tw:("Food patterns")) OR (tw:("Dietary")) OR (tw:("African foods")) |



**Egger test**

P-value = 0.9554

**Fig.S1.** Funnel plot and regression-based Egger test for small-study effects on the association between drinking coffee/tea and the risk of oesophageal cancer.



**Egger test**

P-value = 0.5790

**Fig. S2.** Funnel plot and regression-based Egger test for small-study effects on the association between Hot foods/beverages and the risk of esophageal cancer.



**Egger test**

P-value = 0.3571

**Fig.S3.** Funnel plot and regression-based Egger test for small-study effects on the association between cooking mode and the risk of esophageal cancer.